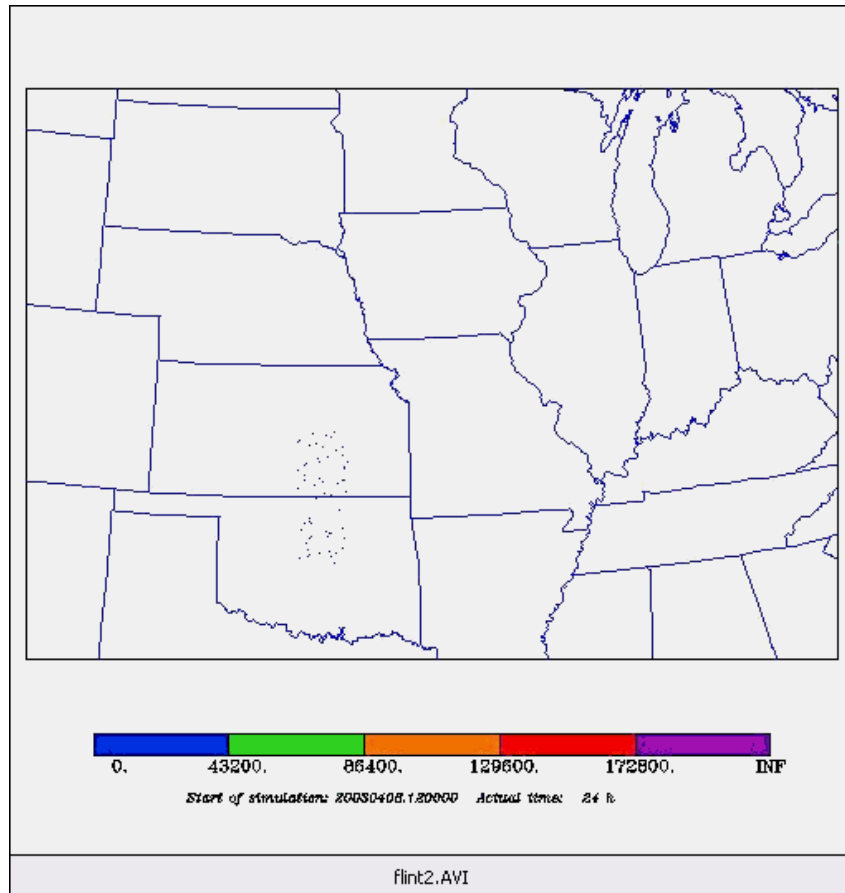# New and Emerging Model Technology for the Regulatory Model Community

Classes of Models

- Gaussian Plume Models (ISC, AERMOD)
- Gaussian Puff Models (INPUFF, CALPUFF, SCIPUFF)
- Lagrangian Particle Models (KSP, HYSPLIT, FLEXPART)
- Computational Fluid Dynamics (CFD) (FLUENT, OPENFLOW)

- Eulerian Models (CMAQ, CAMx)
  - Plume-in-Grid
  - Single Source Apportionment Techniques

Lagrangian Particle Model In Action at EPA

- LPDM used for fire forecast simulations in the Kansas Flint Hills.

- Example: EPM fire emissions model and MM5 met model linked to FLEXPART.